

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P947941

Luminaire Tested: **GALN-SB3A-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8332 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

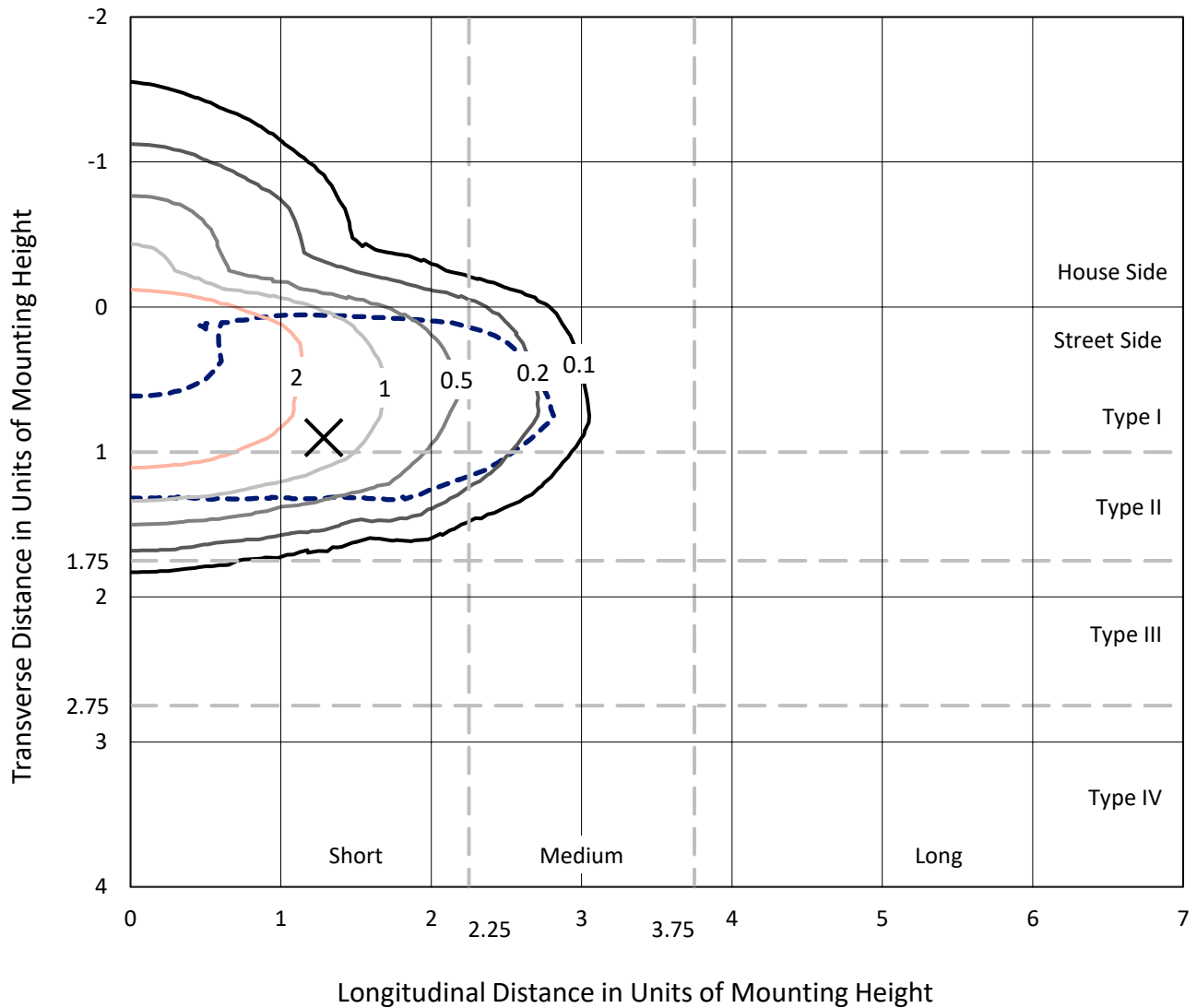
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

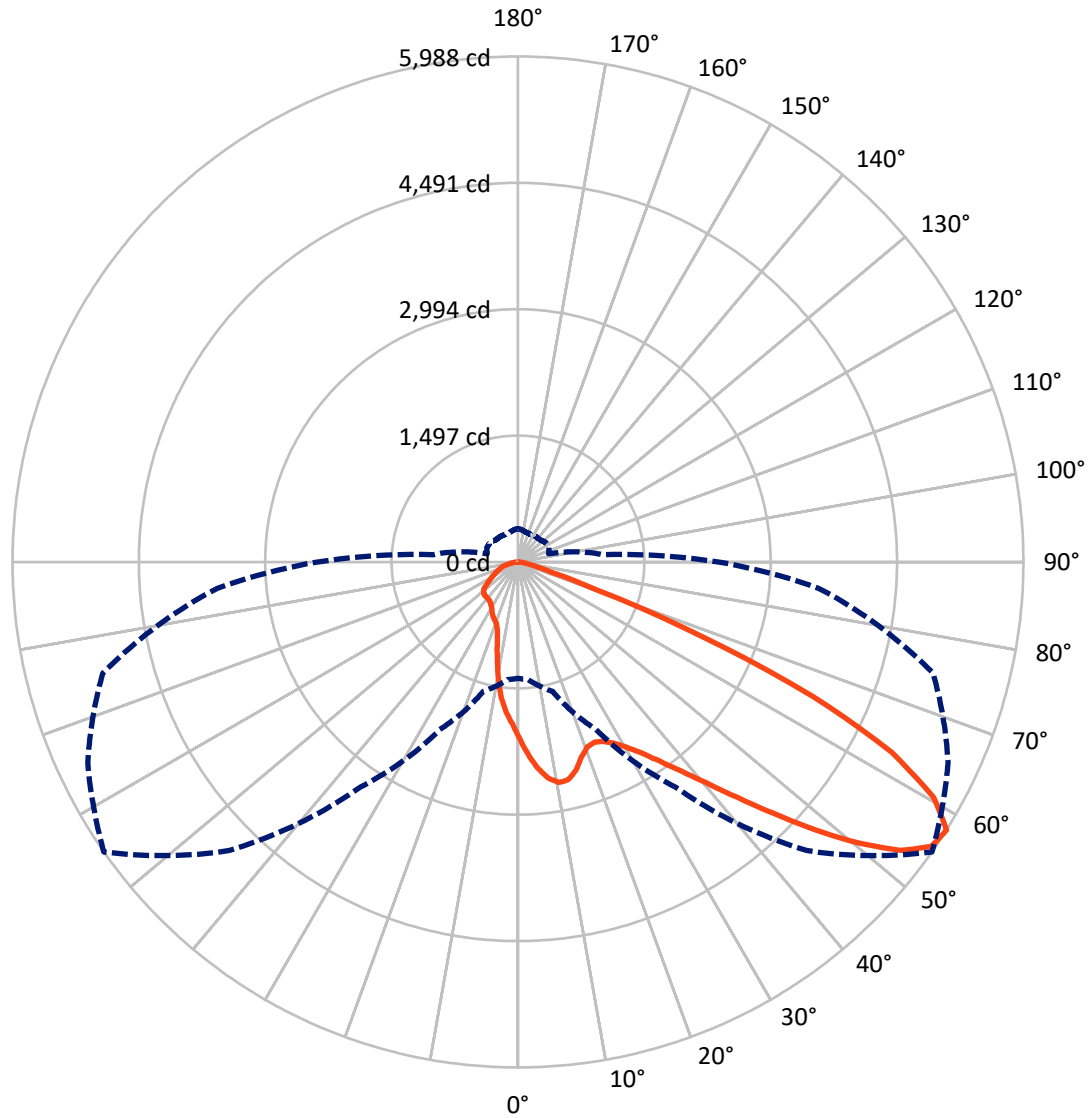
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.6	0.0	1507.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6824.4	0.0	6824.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	8332.0	0.0	8332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	2.3
10°-20°	489.0	5.9
20°-30°	780.3	9.4
30°-40°	1235.4	14.8
40°-50°	1890.9	22.7
50°-60°	2025.3	24.3
60°-70°	1274.1	15.3
70°-80°	376.8	4.5
80°-90°	66.6	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8332.0	100.0
0°-180°	8332.0	100.0

Coefficient of Utilization



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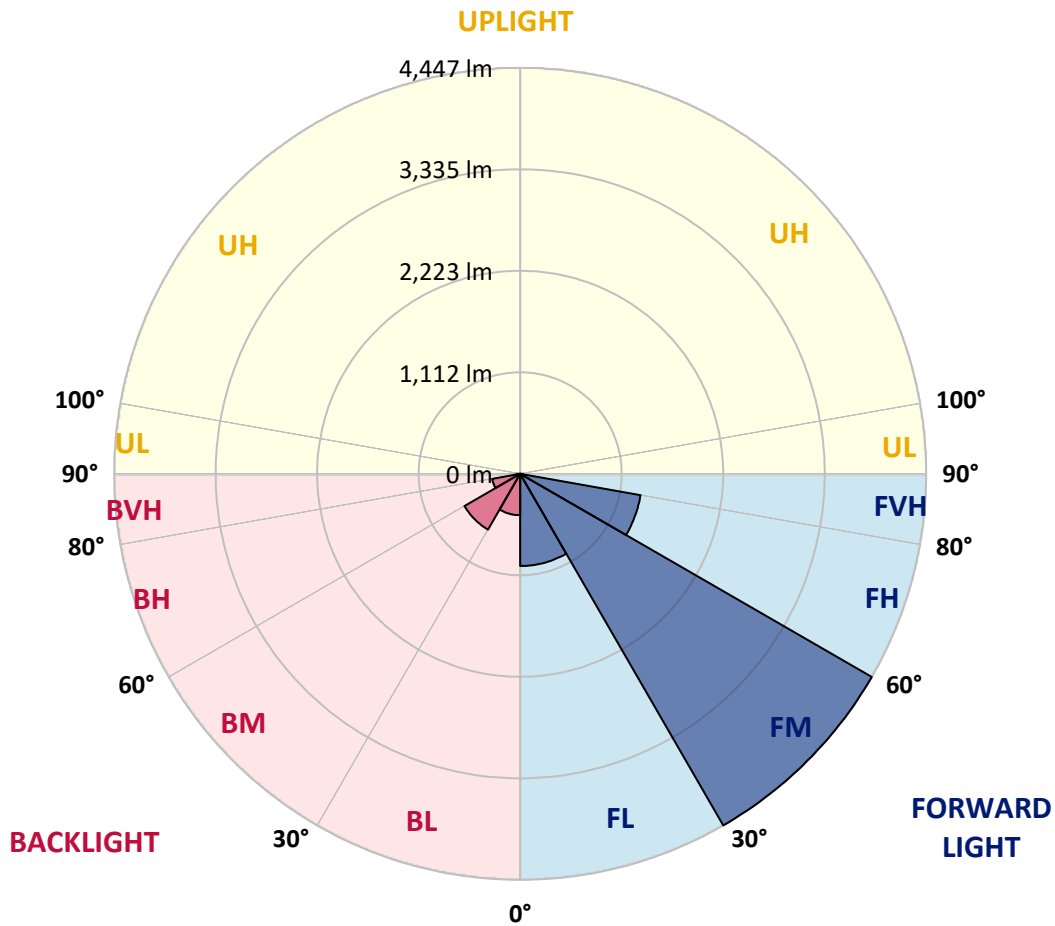
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.8	12.1			
FM (30°-60°)	4446.8	53.4			
FH (60°-80°)	1339.5	16.1			G1/1800
FVH (80°-90°)	28.2	0.3			G1/100
BL (0°-30°)	453.1	5.4	B1/500		
BM (30°-60°)	704.7	8.5	B1/1000		
BH (60°-80°)	311.4	3.7	B1/500		G1/500
BVH (80°-90°)	38.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7
2.5°	2395.3	2393.5	2403.0	2370.7	2348.7	2319.0	2279.8	2229.9	2176.0	2119.2
5°	2611.1	2596.0	2605.9	2581.8	2557.7	2512.9	2454.7	2373.3	2273.8	2160.5
7.5°	2577.0	2566.7	2592.1	2613.6	2631.7	2626.1	2583.5	2498.2	2369.9	2205.3
10°	2302.7	2291.0	2326.8	2401.3	2510.7	2605.9	2657.6	2604.6	2468.1	2254.4
12.5°	2060.6	2055.0	2078.7	2139.0	2260.4	2443.1	2648.1	2697.6	2570.1	2312.6
15°	1957.2	1950.3	1965.4	1996.0	2073.5	2243.7	2562.0	2761.4	2670.5	2379.8
17.5°	1934.4	1926.6	1933.1	1949.0	1999.0	2128.6	2431.9	2792.8	2775.2	2454.7
20°	1976.6	1970.1	1971.0	1970.1	2005.0	2108.0	2341.4	2780.8	2866.5	2523.6
22.5°	2078.7	2067.9	2068.3	2045.5	2064.5	2144.2	2317.7	2748.5	2947.9	2583.9
25°	2244.9	2225.6	2229.4	2171.3	2166.1	2225.1	2354.8	2723.5	3028.9	2632.2
27.5°	2472.4	2450.4	2438.8	2352.2	2310.8	2340.1	2430.2	2732.1	3105.5	2673.9
30°	2756.6	2729.9	2706.3	2583.5	2508.5	2497.8	2547.3	2789.0	3196.0	2717.9
32.5°	3105.1	3074.1	3031.0	2868.2	2762.7	2706.3	2698.9	2890.2	3301.9	2773.9
35°	3519.9	3479.4	3418.2	3207.6	3074.1	2958.7	2898.8	3036.2	3447.1	2858.3
37.5°	3947.2	3901.5	3845.5	3594.8	3430.7	3260.6	3142.6	3234.3	3640.5	2972.9
40°	4341.3	4290.0	4237.9	4014.8	3838.6	3633.6	3441.1	3485.0	3877.0	3109.8
42.5°	4573.9	4536.0	4516.2	4395.6	4259.4	4051.4	3812.4	3782.2	4142.7	3267.5
45°	4563.5	4548.0	4609.2	4659.2	4626.9	4511.4	4247.4	4110.8	4409.3	3404.0
47.5°	4319.8	4330.1	4466.6	4747.5	4871.1	4931.4	4742.7	4433.5	4641.1	3506.1
50°	3656.4	3665.0	3981.2	4586.8	4934.0	5273.8	5234.2	4748.3	4820.7	3568.6
52.5°	3131.4	3137.0	3272.7	4110.4	4726.4	5446.1	5677.0	5045.1	4952.1	3585.8
55°	2358.7	2378.0	2530.1	3224.8	4186.2	5309.6	5946.6	5350.9	5035.2	3587.5
57.5°	1377.9	1399.0	1586.8	2188.9	3253.7	4833.6	5987.5	5622.3	5091.6	3573.7
60°	674.9	684.0	765.8	1150.5	2006.3	3916.6	5658.4	5753.6	5123.1	3566.4
62.5°	454.8	453.6	457.0	567.7	988.5	2516.3	4972.7	5523.6	5106.3	3538.4
65°	391.1	386.4	373.4	398.4	512.1	1150.9	3842.1	4837.1	4978.3	3468.2
67.5°	338.1	338.6	339.0	331.2	365.7	531.1	2347.9	3810.2	4519.2	3135.7
70°	280.0	283.8	285.6	285.6	298.1	348.5	1002.3	2611.5	3564.7	2458.6
72.5°	255.0	246.8	247.7	243.4	243.4	265.3	403.6	1480.4	2245.8	1383.1
75°	208.0	213.2	214.1	211.1	201.1	202.4	239.5	621.1	960.9	573.7
77.5°	179.6	179.6	181.3	179.2	171.4	151.6	159.8	240.8	326.9	235.2
80°	144.3	143.9	151.2	155.5	143.4	112.0	102.1	133.1	145.2	103.4
82.5°	70.2	74.5	103.8	118.4	109.0	81.0	62.5	82.7	77.5	45.7
85°	40.9	38.8	46.5	65.9	62.5	44.8	30.2	43.1	40.5	23.3
87.5°	12.9	12.1	9.5	22.4	18.1	12.5	8.2	12.5	11.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2087.7	0°	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7	2087.7
2094.6	2.5°	2064.0	2013.2	1962.8	1916.7	1888.7	1870.6	1852.6	1832.3	1824.6	1812.9
2100.2	5°	2043.4	1945.2	1857.7	1782.3	1713.9	1660.0	1605.7	1561.8	1542.0	1555.4
2117.9	7.5°	2031.3	1889.2	1754.3	1616.1	1483.0	1376.6	1284.0	1219.0	1189.7	1197.0
2135.1	10°	2020.5	1825.8	1620.4	1402.0	1210.8	1079.0	984.2	934.7	916.2	920.0
2158.4	12.5°	2010.6	1754.8	1458.9	1171.6	968.3	881.3	854.1	854.6	858.0	860.6
2195.4	15°	2008.9	1669.1	1278.4	970.0	837.3	831.7	861.0	879.5	889.4	892.5
2226.4	17.5°	2006.3	1566.6	1094.5	832.6	805.5	843.4	870.5	882.6	890.3	890.7
2256.6	20°	1996.0	1436.5	924.8	767.1	798.6	831.3	848.1	857.6	864.0	866.2
2279.4	22.5°	1964.1	1291.7	792.5	737.8	771.0	797.3	817.1	827.9	831.7	834.3
2283.7	25°	1906.8	1129.8	701.2	709.8	732.7	765.8	781.8	783.9	782.6	786.5
2272.9	27.5°	1831.9	956.2	644.4	671.9	701.2	729.6	738.3	737.0	734.4	738.7
2254.4	30°	1741.4	800.3	608.2	629.3	669.3	695.2	702.9	699.9	694.8	699.5
2244.9	32.5°	1645.8	672.8	578.5	599.6	643.1	668.5	676.2	673.2	669.3	673.2
2255.7	35°	1556.6	583.6	550.9	579.8	622.4	647.4	657.3	657.7	657.7	662.5
2284.1	37.5°	1474.8	531.5	528.1	567.3	608.2	630.6	644.8	645.7	627.1	628.4
2332.4	40°	1399.0	509.5	517.7	559.1	594.4	615.9	616.8	568.6	534.5	533.7
2387.5	42.5°	1337.0	505.2	520.7	558.2	584.5	585.4	524.6	487.2	477.7	478.1
2438.3	45°	1278.8	503.9	527.6	558.2	569.9	505.7	464.8	454.8	455.7	459.2
2461.2	47.5°	1213.8	498.8	528.9	550.5	527.6	449.7	437.6	433.3	431.6	432.4
2456.0	50°	1142.7	480.3	512.6	535.0	455.3	425.6	410.5	409.2	411.3	412.6
2427.1	52.5°	1067.8	450.1	484.6	507.0	422.1	404.5	387.7	390.7	400.1	403.2
2397.0	55°	1018.7	414.8	447.5	451.0	398.9	384.6	370.4	377.3	395.0	400.6
2378.9	57.5°	1005.7	377.3	405.3	401.4	369.1	367.4	358.8	364.8	387.2	395.4
2378.0	60°	1001.9	343.7	364.0	360.9	340.3	348.5	346.3	349.3	357.1	359.7
2369.4	62.5°	971.7	317.0	326.9	322.6	314.4	328.6	333.8	327.4	333.4	336.4
2310.4	65°	895.0	295.5	290.7	287.7	291.2	304.1	314.4	301.5	307.1	315.7
2083.0	67.5°	768.4	266.2	253.3	256.7	267.5	274.4	287.7	273.1	277.8	292.5
1677.7	70°	621.5	229.1	217.5	227.4	237.8	252.0	254.1	244.2	255.4	271.8
1023.8	72.5°	439.8	191.7	183.5	203.7	207.2	225.7	221.0	216.2	231.7	237.3
506.1	75°	305.0	154.6	149.9	165.4	177.9	193.8	190.4	196.0	228.7	231.3
252.8	77.5°	193.0	120.2	117.2	127.1	144.3	162.0	167.6	231.3	390.7	406.2
131.4	80°	112.0	89.6	86.1	93.9	109.0	125.3	161.5	283.8	257.6	254.6
59.0	82.5°	62.5	61.6	57.3	59.4	72.8	90.5	228.3	199.9	162.4	167.6
23.7	85°	29.3	36.2	31.0	29.7	40.9	106.0	152.5	114.1	75.8	74.1
5.2	87.5°	7.8	6.9	6.9	7.8	17.2	91.3	60.7	48.7	28.9	28.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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